Abbreviations/Acronyms

2.5-D	two and a half dimensional
3-D	three dimensional
3G	third generation

A

AFIWC/EWS	Air Force Information Warfare Center/Electronic Warfare Squadron
AGILE	Advanced Generation of Interoperability for Law Enforcement
AMPS	advanced mobile phone service
ANS	American National Standard
ANSI	American National Standards Institute
APCO	Association of Public Safety Communications Officials
APD	amplitude probability distribution
ASCII	American Standard Code for Information Interchange
ATB	antenna testbed
ATIS	Alliance for Telecommunications Industry Solutions
ATM	asynchronous transfer mode

B

BAWT	broadband arbitrary waveform transmitter
BER	bit error ratio
BLAST	Bell Labs Layered Space-Time theory
BPSK	binary phase shift keying
BW	bandwidth
BWCF	bandwidth correction factor

C

CCIR	International Radio Consultative Committee (now ITU-R)
CD	compact disk
CDA	code domain analyzer
CDMA	code division multiple access
CIP	critical infrastructure protection
CMTS	cable modem termination system
CONUS	continental U.S.
COTS	commercial off-the-shelf
CRADA	cooperative research and development agreement
CRPL	Central Radio Propagation Laboratory
CRSMS	Compact RSMS
CSPT	Communication System Planning Tool
CW	continuous wave

D

dB	decibel
DC	direct current
DFS	dynamic frequency sharing
DGPS	differential GPS
Diff-Serv	Differentiated Services
DLL	dynamic link library
DOC	Department of Commerce
DOD	Department of Defense
DOJ	Department of Justice
DSCP	digital sampling channel probe
DSP	digital signal processing
DSSS	direct sequence spread spectrum
DTAO	Defense Technology Analysis Office
DTV	digital television

E

EIA	Electrical Industries Association
EMC	electromagnetic compatibility
ESSA	Environmental Science Services Administration
ETS	Emergency Telecommunication Service

F

FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FDTD	finite-difference time domain
FED	Federal
FED-STD	Federal Standard
FHSS	frequency hop spread spectrum
FM	frequency modulation
FPGA	field programmable gate array
FR&O	first report and order
FRA	Federal Railroad Administration
FTP	file transfer protocol
FTTA	Federal Technology Transfer Act
FY	fiscal year

G

GB	gigabyte
GETS	Government Emergency Telecommunications Service
GHz	gigahertz
GIF	graphics interchange format
GIS	geographic information system
Global	Global Justice Information Network Advisory Committee
GLOBE	global land one-km base elevation
GO	geometric optics
GPR	ground penetrating radar

GPRS	general packet radio service
GPS	Global Positioning System
GSM	Global System for Mobile

H

HAAT	height above average terrain
HDTV	high definition television
HF	high frequency
HP	Hewlett Packard
HPGL	HP graphics language
HTML	hypertext markup language
HTTP	hypertext transfer protocol

I

I2	Internet2
ID	identification
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IF	intermediate frequency
IITRI	Illinois Institute of Technology (IIT) Research Institute
IMT-2000	International Mobile Telecommunications 2000
INFOSEC	information system security
Internet2	2nd-generation Internet
IP	Internet protocol
IRL	Interoperability Research Laboratory
ISART	International Symposium on Advanced Radio Technologies
ISDN	integrated services digital network
ISM	industrial, scientific, and medical
ISO	International Organization for Standardization
ISSI	inter-RF subsystem interface

IT	information technology		MOS	mean opinion score
ITCS	incremental train control system		MP	milepost
ITM	Irregular Terrain Model		MPEG	Motion Picture Experts Group
ITS	Institute for Telecommunication Sciences		MSTV	Association for Maximum Service Television, Inc.
ITSA	Institute for Telecommunication Sciences and Aeronomy		MTA	media terminal adaptor
ITU	International Telecommunication Union		MW	megawatt

N

NASTD	National Association of State Telecommunications Directors
NBS	National Bureau of Standards
NCAR	National Center for Atmospheric Research
NCS	National Communications System
NGI	next generation Internet
NGN	next generation network
NII	National Information Infrastructure
NIJ	National Institute of Justice
NIST	National Institute of Standards and Technology
NLANR	National Laboratory for Applied Network Research
NOAA	National Oceanic and Atmospheric Administration
NPRM	notice of proposed rulemaking
NS/EP	National Security and Emergency Preparedness
NTIA	National Telecommunications and Information Administration
NWS	National Weather Service

ITU-R	International Telecommunication Union — Radiocommunication Sector
ITU-T	International Telecommunication Union — Telecommunication Standardization Sector
IXC	interexchange carrier

K

kbps	kilobits per second
kHz	kilohertz

L

LAN	local area network
LMDS	local multipoint distribution service
LMR	land mobile radio
LOS	line of sight

M

MAN	metropolitan area network
Mbps	megabits per second
MHz	megahertz
MILCOM	Military Communications Conference
MIMO	multiple input multiple output

O

O&M	operations and maintenance
OATS	open area test site
OLES	Office of Law Enforcement Standards
OMB	Office of Management and Budget
OO	object oriented
ORTA	Office of Research and Technology Applications
OSM	Office of Spectrum Management
OT	Office of Telecommunications
OTAR	over-the-air rekeying
OTP	Office of Telecommunications Policy

P

P25	Project 25
PAS	priority access service
PBS	Public Broadcasting System
PBX	private branch exchange
PC	personal computer
PCS	Personal Communications Services
PDA	personal digital assistant
PDO	Program Development Office
PESQ	perceptual evaluation of speech quality
PN	pseudo-random
PRR	pulse repetition rate
PS/LE	public safety/law enforcement
PSNR	peak signal-to-noise ratio
PSTN	public switched telephone network
PSWN	Public Safety Wireless Network

Q

QoS	quality of service
QPSK	quadrature phase-shift keying

R

R&D	research and development
RCG	Radar Correspondence Group
RDBMS	relational database management system
RF	radio frequency
RFIMS	Radio Frequency Interference Monitoring System
RMON	remote monitoring
RMS	root mean square
RSEC	Radar Spectrum Engineering Criteria
RSMS	Radio Spectrum Measurement System
RTCP	realtime transport control protocol
RTP	realtime transport protocol

S

S-T	spatial-temporal
SBC	single board computer
SDMA	space division multiple access
SDR	software defined radio
SDTS	spatial data transfer standard
SFG	Standards Formulating Group
SG	study group
SIP	session initiation protocol
SIPRNET	Secret Internet Protocol Routable Network
SLA	service level agreement
SNR	signal-to-noise ratio
SONET	synchronous optical network
SRD	standard requirements document
SSCQE	single stimulus continuous quality evaluation

T

TA Services   Telecommunications Analysis Services

TB   terabyte

TDMA   time division multiple access

TIA   Telecommunications Industry Association

TIREM   Terrain Integrated Rough Earth Model

TR   technical report

TSB   Telecommunications Systems Bulletin

TV   television

TVRO   television receive-only

U

UHF   ultra high frequency

UMTS   universal mobile telecommunications system

UNIX   uniplexed information and computing service

URL   uniform resource locator

URSI   International Union of Radio Science

USCG   U.S. Coast Guard

USGS   U.S. Geological Survey

UTRA   UMTS terrestrial radio access

UWB   ultrawideband

V

V   volt

VAC   volts, alternating current

VHF   very high frequency

VoIP   voice over Internet protocol

VPN   virtual private network

VQEG   Video Quality Experts Group

VQM   video quality measurement

W

W-CDMA   wideband CDMA

WCTF   Wireless Communications Task Force

WDM   wave division multiplexing

Wi-Fi   wireless fidelity

WIN   wireless intelligent network

WLAN   wireless LAN

WNRC   Wireless Networks Research Center

WP   working party

WPAN   wireless personal area network

X

XML   eXtensible Markup Language